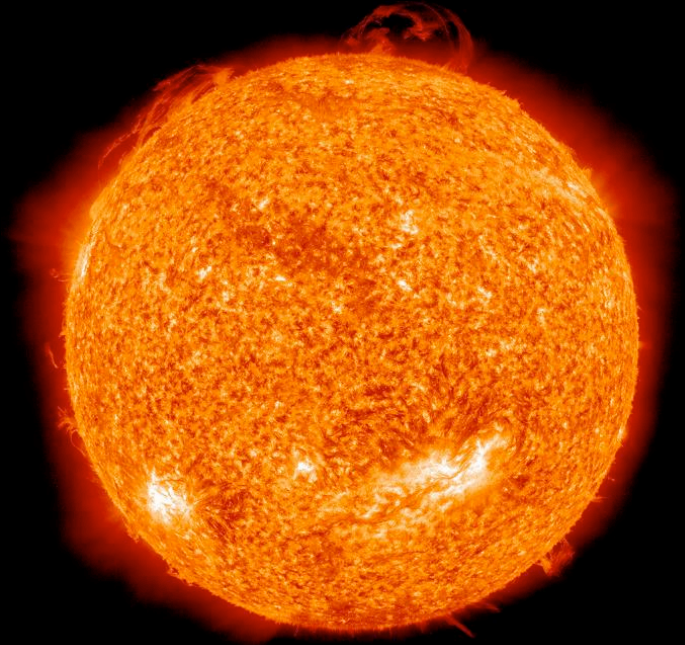


# Software Innovations Speed Scientific Computing



***Goddard Space Flight Center***

***Tech-X Corporation  
Boulder, Colorado***



## **NASA Technology**

- ◆ The Heliophysics Division of NASA's Science Mission Directorate pursues a variety of missions to study the Sun
- ◆ NASA gathers a wealth of data on the Sun every day and deciphers it using a programming language called Interactive Data Language

## **Partnership**

- ◆ As NASA requires ever greater computing power, it awarded a Small Business Innovation Research (SBIR) contract to Tech-X, which developed applications to run IDL on cluster systems
- ◆ The new arrangement increased performance in an environment familiar to the scientists while reducing the time needed to analyze large amounts of data

## **Benefits**

- ◆ Tech-X's software, FastDL, process up to 40 times faster than previous applications
- ◆ With 70 employees, Tech-X has earned over \$200,000 selling its NASA-derived technology
- ◆ An additional spinoff technology, GPULib (a library of mathematical functions to facilitate data processing) has been downloaded 10,000 times